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I, CASSANDRA RICHARDS, ACTING TEAM LEADER EXAMINATION SUPPORT & SALES hereby certify that annexed is a true copy of the Provisional specification in connection with Application No. PQ 3248 for a patent by MI-OK PTY LTD filed on 05 October 1999.



WITNESS my hand this
Third day of November 2000

A handwritten signature in cursive script.

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PROVISIONAL SPECIFICATION FOR THE INVENTION ENTITLED:

PORTABLE AIR-POWERED TOOLS

This invention is described in the following statement:-

This invention relates to portable-air powered tools such as adhesive guns, nail guns, mixer guns, sausage guns, ratio-pack guns and the like.

For the sake of convenience, the invention will be described in relation
5 to a portable air-powered adhesive gun but it is to be understood that the invention is not limited thereto.

Adhesive guns are either air-powered or manually actuated. Air-powered adhesive guns require an air compressor for operation and hitherto those compressors have been very heavy, very bulky and generally difficult to
10 move about a work site. It is these disadvantages of air-powered adhesive guns that leads to the use of manually actuated adhesive guns on building sites in circumstances where an air-powered adhesive gun would lead to greater productivity and less worker fatigue and worker injuries.

It is, therefore, an object of this invention to provide a portable air-
15 powered tool which overcomes some, if not all, of the disadvantages associated with currently available air compressors.

According to one aspect of the invention there is provided a portable air-powered tool comprising a container having an opening and closed by a lid, an electrically driven air compressor mounted within the container, at least one air
20 vent in the walls of the container to permit air flow from the exterior to the interior of the container, electrical circuitry means within the container electrically connected to the air compressor and adapted to be connected to a power supply, said container being adapted to house an air-powered gun and an air line for connecting the gun to the air compressor.

25 In one form of the invention, the electrical circuitry is connected to a general purpose power outlet adapted to receive an electrical lead for electrical devices such as lights, vacuum cleaners and power tools. The electrical circuitry may include a switch which enables the compressor to be switched off with the other device remaining on.

The electrical circuitry may be connected to a battery pack within or external of the container or may be adapted for connection to a main supply.

In a preferred form of the invention there is provided locking means for locking the lid to the container. The container may be provided with wheels,
5 multiple handles and/or a pull-out handle.

In order that the invention may be more readily understood and put into practical effect, reference will now be made to the accompanying drawing which is a diagrammatic perspective view of a portable air-powered tool according to one embodiment of the invention.

10 The tool 10 shown in the drawing includes a container 11 having a lid 12 and locking means 13. The container 11 has a base 14, end walls 15 and 16 and side wall 17 and 18. An electrically operated air compressor 19 is mounted within the container 11 on the base 14. Air vents 20 and 21 are provided in the end walls 15 and 16.

15 An electrical circuit within the container 11 includes a connection box 22 adapted to be connected to a main supply by an extension lead. Line 23 leads from the box 22 to the electrical terminals 24 of the compressor 19 through an on/off switch 25. Line 26 connects a pair of general purpose outlets 27 to the connection box 22. The purpose of the switch 25 is to enable power to be
20 supplied to the general purpose outlets 27 when the compressor 19 is turned off. For example, a light could be connected to one of the general purpose outlets 27 and it can be therefore used without having to run the compressor at the same time.

An adhesive gun 28 is positioned within the container 11 along with an
25 air hose line 29 which is used to couple the gun 28 to the compressor 19.

Preferably, the compressor 19 is a light weight compressor having a long term operating capacity which enables the use of a much smaller and lighter compressor than currently used compressors which may have a substantial accumulator vessel that is charged by the intermittent running of the
30 compressor. It is anticipated that the complete portable operated tool of the

invention would weigh in the vicinity of 5kg as opposed to 25 to 30kg or much more for current equipment.

In this instance, the lid 12 has a handle 30 but various combination of handles could be provided on the lid 12, the side walls and the end walls 15
5 and 16 of the container 11. A pull-out handle could also be used in which case the container 11 would be fitted with wheels.

Various other modifications may be made in details of design and construction without departing from the scope and ambit of the invention. For example, the compressor 19 could be coupled to one or more air vents by a
10 housing to ensure that items placed in the container 11 do not block the flow of air to the compressor 19. Releasable fastener means may be provided to secure the adhesive gun 28 and the hose line 29.

Dated this 5 day of October, 1999

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